

Appl. No. 10/733,984
Examiner: MONDT, JOHANNES P, Art Unit 2826
In response to the Office Action dated July 13, 2005

Date: September 27, 2005
Attorney Docket No. 10113311

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claims 1-22 (canceled)

Claim 23 (currently amended): A structure for a bit line contact hole, comprising:

- a substrate ;
- a transistor, disposed on the substrate, comprising a gate layer covered by a first insulating layer and comprising a doped region;
- an inner landing pad, disposed on the doped region and parts of the transistor, comprising a polysilicon layer;
- a passivation layer, disposed on the inner landing pad, the transistor, and the substrate;
- a second insulating layer, disposed on the passivation layer, having a flat surface on the passivation layer;
- a contact plug, disposed on the second insulating layer and the passivation layer and contacted with the inner landing pad, electrically connecting with the inner landing pad; and
- an interconnected landing pad, deposited on the contact plug.

Claim 24 (currently amended): The structure as claimed in claim 23, wherein thickness of the polysilicon layer of the inner landing pad is about 100~400Å.

Claim 25 (currently amended): The structure as claimed in claim 23, wherein the material of the passivation layer comprises silicon nitride.

Claim 26 (currently amended): The structure as claimed in claim 25, wherein thickness of the passivation layer is about 110~130Å.

Claim 27 (new): A structure for a bit line contact hole, comprising:

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a substrate ;

a transistor, disposed on the substrate, comprising a gate layer covered by a first insulating layer and comprising a doped region;

an inner landing pad, disposed on the doped region and parts of the transistor, comprising a polysilicon layer;

a passivation layer, disposed on the inner landing pad, the transistor, and the substrate, wherein the passivation layer has a thickness of about 110~130Å;

a second insulating layer, disposed on the passivation layer, having a flat surface on the passivation layer;

a contact plug, disposed on the second insulating layer and the passivation layer, electrically connecting with the inner landing pad; and

an interconnected landing pad, deposited on the contact plug.